



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

J. F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203

Site: New Bedford
Break: 11.5.36
Other: 57448

June 11, 1987

Mary Ryan
Nutter, McClennan & Fish
600 Atlantic Avenue
Boston, MA 02210

Janine Sweeney
Morgan, Lewis & Bockius
1800 M Street N.W.
Washington, D.C. 20036

RE: I-FOI-283-87
I-FOI-313-87

Dear Ms. Ryan and Ms. Sweeney:

We have completed our review of the documents relating to New Bedford Harbor sampling at E.C. Jordan's offices in Portland, Maine, and we are prepared to make them available to you. E.C. Jordan has prepared a table of the data in their files, a copy of which is enclosed. It is my present understanding that the files include "Validation Reports" for all the data in the table, except Group 7 (which are contained in a report from Sanford Ecological Services) and certain data reports which are still to be sent from NUS. The latter should arrive at E.C. Jordan by the first of next week. E.C. Jordan also has "Data Packages" for all samples except the following: the Group 1 samples with the "case number" 4515; the Group 2 samples from the Army's Water Quality Lab; the Group 3 metals samples with the Case Number 5131 from Versar, Inc.; a portion of "ETR 9102" from Group 4 which is also still to be delivered from NUS; the Group 5 samples from Battelle and E3I; and the Group 6 and Group 7 samples. I believe that the Army Water Quality Laboratory's documents have already been produced. The Battelle and E3I data packages which have not yet been produced will be made available in the same manner as E.C. Jordan. The other data packages will be made available as soon as possible.

Also included in E.C. Jordan's files relating to these data documents are the following:

- 1) Four summaries from NUS describing the sampling and results listed in E.C. Jordan's table as Groups 1-4;
- 2) An NUS Workplan Amendment, with a cover letter from Robin Smith of NUS to Frank Ciavattieri of EPA; and

- 3) A letter dated February 23, 1987, from Joseph K. Comeau of Aquatech, to Ed Doyle of E.C. Jordan, describing Aquatech's protocols.

In order to expedite our response to your request, we will also make available at E.C. Jordan certain non-privileged documents from Region I's files which we have been able to identify as covered by your request, which have not been, or may not have been, already produced. These include:

- 1) A copy of a letter dated September 5, 1985, from Joe Yeasted of NUS to Jackie Prince of EPA attaching NUS's bid specifications for the sampling program, and a copy of a previous draft of the specifications dated August 1, 1985;
- 2) A letter to Ms. Prince from Robin Smith of NUS dated November 14, 1985, with data relating to the June, 1985 samples;
- 3) A draft of NUS's scope of work for the drilling program, dated December, 1985;
- 4) A copy of a report on metals analyses from GCA, with a cover letter to Ms. Prince dated November 27, 1984;
- 5) A letter dated May 5, 1986, from William Steinhauer of Battelle to Dr. Michael Mullin of EPA;
- 6) A memo from Dr. Michael Mullin to Frank Ciavattieri dated December 22, 1986, with attachments;
- 7) A report to EPA from Dr. Thomas Tiernan dated November 21, 1986;
- 8) A file containing draft maps of NUS's grid sampling and results;
- 9) A memo from Dr. Peter Rogerson of EPA Narragansett to Dave Hansen of EPA-Narragansett dated October 10, 1986 (an addendum to the study produced in our October 6, 1986 RFAs).
- 10) A memo with attachments from Curt Norwood of EPA (ERL-Narragansett) to Leroy Folmar of EPA, dated December 19, 1986, with attachments, including a proposal by Dr. Peter Rogerson dated July 9, 1986;
- 11) A memo dated December 20, 1986, from Walter Berry of Narragansett to Leroy Folmar;
- 12) A memo dated February 18, 1987, from David Hansen of EPA Narragansett to Leroy Folmar;
- 13) A memo from N Robert Jaworski of EPA Narragansett to Frank Ciavattieri, dated February 27, 1987;

- 14) A letter dated June 5, 1987, from Daniel Averett of the Corps of Engineers to Frank Ciavattieri;
- 15) Four Memoranda for the Record (MFRs), by Allen Teeter of the Corps Waterways Experiment Station (WES) dated January 26, 27, 28 and 29, 1987;
- 16) A paper by Allen Teeter, undated;
- 17) An MFR by Michael Palermo of WES dated March 6, 1987;
- 18) An article by Michael Palermo, dated August, 1986 (COE Technical Report D-86-4)
- 19) An MFR by Allen Teeter and Bofu Yu of WES, dated May 6, 1987;
- 20) An article by Russell H. Plumb dated May, 1981, published by WES under a contract with EPA; and
- 21) Chain of custody records and lab notebooks from WES relating to New Bedford sampling.
- 22) Chain of custody documents for case number 5131.

There are other materials still being assembled by the various participants in the RI/FS. I hope to produce some additional materials either when you go to E.C. Jordan, or subsequently at Region I's offices in Boston, or both. At the moment, we are collecting additional documents from the Corps of Engineers' Waterways Experiment Station and EPA's Narragansett Laboratory. You should be aware that much of the information relative to analyses at these laboratories is stored on computer. We will identify what information is now available in hard copy documents; if you wish to obtain information stored on computer tapes, we will ask that you pay for copying the tapes or printing out the data, following the standard policy set forth by EPA in 40 C.F.R. § 2.120.

I wish to emphasize that although we are making these documents available at this time, EPA has not completed its RI/FS, and production of these documents should not be taken to imply a final determination on any issue being investigated. These documents will thus constitute portions of EPA's administrative records, but it should be clear that the record cannot be considered complete until the studies themselves and the remedy selection process are complete. EPA may, in the course of the RI/FS, conduct additional analyses and additional review or interpretation of these analyses described in the documents now being produced.

Please let me know at your earliest convenience when you would like to schedule an inspection of E.C. Jordan's documents. My number is (617) 565-3455.

Yours sincerely,

A handwritten signature in cursive script, appearing to read "Charles C. Bering".

Charles Bering
Assistant Regional Counsel

cc: Laurie Burt
Paul Galvani
Dave McLaughlin
Lee Breckenridge
Frank Ciavattieri
Bill Brighton

NEW BEDFORD HARBOR DATA STATUS REPORT
 (Data available as of March 24, 1987)

* Indicates data added since last report

SAMPLE PROGRAM/ SAMPLE LOCATION	NUMBER OF SAMPLES ANALYZED	SAMPLE TYPE	SAMPLE COLLECTION BY	CASE NUMBER	ANALYSIS LAB	TYPE ANALYSIS PERFORMED		STATUS OF ANALYSES	WHEN ANALYSIS COMPLETE	WHERE IS DATA	DATA VALIDATION STATUS	COMMENTS	SAMPLE NUMBERS	
						PCB	OTHERS							
<u>BATTELLE SAMPLING/ MONITORING PROGRAM- NEW BEDFORD HARBOR- GROUP 5 DATA</u> -continued	50	Water-particulate	Battelle-NE	Batch 053	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E1106 - E1158	
	50	Water-particulate	Battelle-NE	Batch 054	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted w/exceptions	E1159 - E1211	
	50	Water-particulate	Battelle-NE	Batch 055	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates w/exceptions	E1212 - E1264	
	50	Water-particulate	Battelle-NE	Batch 056	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates w/exceptions	E1265 - E1317	
	50	Water-particulate	Battelle-NE	Batch 057	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates; some data rejected	E1318 - E1355	
	38	Water-particulate	Battelle-NE	Batch 058	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates; some data rejected	E1539 - E1572	
	34	Water-particulate	Battelle-NE	Batch 071	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted	E0001 - E0050	
	55	Sediment	Battelle-NE	Batch 004	E3I		Grain Size	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted; % silt are estimates	E0151 - E0195	
	42	Sediment	Battelle-NE	Batch 009	E3I		Grain Size	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted; % silt, clay are estimates	E0229 - E0242	
	14	Sediment	Battelle-NE	Batch 014	E3I		Grain Size	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted; % silt, clay are estimates	E1632 - E1645	
	14	Sediment	Battelle-NE	Batch 075	E3I		Grain Size	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted; % silt, clay are estimates	E1632 - E1645	
	<u>AIR SAMPLING - HOT SPOT VICINITY GROUP 6 DATA</u> 5 locations near exposed mudflats; 4 of 5 locations downwind from flats	19	Air	NUS-ESD	Lab Case No.1; PUF Case 1	NUS-LSD	PCB (Arochlors)		Complete	---	ECJ	NUS (1) complete/validation complete	Air data obtained as part of meteorological study	SAS/Case numbers not assigned; sample numbers are various
		40	Air	NUS-ESD	Lab Case No.2; PUF Case 2	NUS-LSD	PCB (Arochlors)		Complete	---	ECJ	NUS (1) complete/validation complete		SAS/Case numbers not assigned; sample numbers are various
45		Air	NUS-ESD	---	NUS-LSD	PCB (Arochlors)		Complete	---	ECJ	NUS (1) complete/validation complete		Sample numbers are various	
<u>US ACE - WINTER FOOD CHAIN BIOACCUMULATION STUDY - GROUP 7 DATA</u> Plant and animal (gull, mussel, mice, insects) tissues collected in Hot Spot area analyzed to investigate bio- accumulation in the local food chain.	36	Tissue	Sanford Ecological Services, Inc.	---	Resource Analysts, Inc.	PCB (Arochlors)	Metals (Cr, Cu, Pb, Zn)	Complete	---	ECJ	Data QC by Resource Analysts, Inc.; NUS did not validate		Sample numbers are various	

Data added since last report

PROGRAM/ LOCATION	NUMBER OF SAMPLES ANALYZED	SAMPLE TYPE	SAMPLE COLLECTION BY	CASE NUMBER	ANALYSIS LAB	TYPE ANALYSIS PERFORMED		STATUS OF ANALYSES	WHEN ANALYSIS COMPLETE	WHERE IS DATA	DATA VALIDATION STATUS	COMMENTS	SAMPLE NUMBERS
						PCB	OTHERS						
SAMPLING/ PROGRAM - HARBOR -	97	Sediment extracts	Battelle-NE	*SAS 2476A ETR 9049	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	21	Clay fraction	Battelle-NE	*SAS 2476A ETR 9051	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	42	Sediment	Battelle-NE	*SAS 2476A ETR 9052	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	47	Water extracts	Battelle-NE	*SAS 2476A ETR 9100	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	NUS validation complete		
	277	Filtrate	Battelle-NE	*SAS 2476A ETR 9101	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	301	Filter	Battelle-NE	*SAS 2476A ETR 9102	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	43	Water extracts	Battelle-NE	*SAS 2476A ETR 9110	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	52	Lobster - bioaccum. tissue extracts	Battelle-NE	*SAS 2476A ETR 9147	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	50	Flounder - bioaccum. tissue extracts	Battelle-NE	*SAS 2476A ETR 9148	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	20	Clam - bioaccum. tissue extracts	Battelle-NE	*SAS 2476A ETR 9149	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	34	Polychaetes - bioaccum. tissue extracts	Battelle-NE	*SAS 2476A ETR 9150	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	97	Winter flounder - field tissue extracts	Battelle-NE	*SAS 2476A ETR 9151	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	NUS validation complete		
	18	Polychaetes - field tissue extracts	Battelle-NE	*SAS 2476A ETR 9152	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	60	Lobster - field tissue extracts	Battelle-NE	*SAS 2476A ETR 9153	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	74	Spider crab - field tissue extracts	Battelle-NE	*SAS 2476A ETR 9154	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	NUS validation complete		
	33	Blue mussel - field tissue extracts	Battelle-NE	*SAS 2476A ETR 9155	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	40	Mercenaria - field tissue extracts	Battelle-NE	*SAS 2476A ETR 9156	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	109	Water extracts	Battelle-NE	*SAS 2476A ETR 9249	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	34	Sediment extracts	Battelle-NE	*SAS 2476A ETR 9250	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	67	Sediment	Battelle-NE	*SAS 2476A ETR 9506	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		

*Indicates data added since last report

SAMPLE PROGRAM/ SAMPLE LOCATION	NUMBER OF SAMPLES ANALYZED	SAMPLE TYPE	SAMPLE COLLECTION BY	CASE NUMBER	ANALYSIS LAB	TYPE ANALYSIS PERFORMED		STATUS OF ANALYSES	WHEN ANALYSIS COMPLETE	WHERE IS DATA	DATA VALIDATION STATUS	COMMENTS	SAMPLE NUMBERS	
						PCB	OTHERS							
BATTELLE SAMPLING MONITORING PROGRAM- NEW BEDFORD HARBOR- GROUP 5 DATA -continued	32	Tissue-lipids	Battelle-NE	Batch 059	Battelle-NE		Lipid weight	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Includes replicates	BK21-54	
	38	Tissue-lipids	Battelle-NE	Batch 060	Battelle-NE		Lipid weight	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Includes replicates	BK55-94	
	38	Tissue-lipids	Battelle-NE	Batch 061	Battelle-NE		Lipid weight	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Includes replicates	BK96-99, BL01-39	
	65	Tissue-lipids	Battelle-NE	Batch 062	Battelle-NE		Lipid weight	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Includes replicates	BL42-99, BM01-07, BM75-78	
	30	Tissue-lipids	Battelle-NE	Batch 063	Battelle-NE		Lipid weight	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Includes replicates	BM09-35, BM79-83	
	33	Tissue-lipids	Battelle-NE	Batch 066	Battelle-NE		Lipid weight	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Includes replicates	BL37-38, BM38-73	
	20	Tissue-lipids	Battelle-NE	Batch 067	Battelle-NE		Lipid weight	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Includes replicates	BM84-99, B001-06	
	Samples analyzed for particulate organic carbon (POC), total organic carbon (TOC), total suspended solids (TSS), and grain size	63	Water-filtrate	Battelle-NE	Batch 021	E3I		POC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E0282-E0338
		55	Water-filtrate	Battelle-NE	Batch 021A	E3I		POC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E0339-E0388
		43	Water-filtrate	Battelle-NE	Batch Nos. 022A, 022B	E3I		POC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates w/4 rejections	E0389 - E0431
42		Water-filtrate	Battelle-NE	Batch 023	E3I		POC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E0432 - E0473	
9		Water-filtrate	Battelle-NE	Batch 074	E3I		POC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E1896-E1904	
50		Sediment	Battelle-NE	Batch 005	E3I		TOC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E0051 - E0100	
50		Sediment	Battelle-NE	Batch 006A, 006B	E3I		TOC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E0101 - E0150	
33		Sediment	Battelle-NE	Batch 013A, 013B,013C	E3I		TOC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates w/5 rejections	E0196 - E0228	
53		Water-filtrate	Battelle-NE	Batch 019	E3I		TOC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E0229 - E0281	
20		Sediment	Battelle-NE	Batch 031	E3I		TOC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E0604 - E0623	
18	Sediment	Battelle-NE	Batch 034	E3I		TOC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Data accepted	E1433-E1450		
20	Sediment	Battelle-NE	Batch 076	E3I		TOC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Data accepted	E1905-E1923		
69	Sediment	Battelle-NE	Batch 080	E3I		TOC	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Data accepted	E1924-E1992		
51	Water-particulate	Battelle-NE	Batch 049	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates; some data rejected	E0887 - E0939		
56	Water-particulate	Battelle-NE	Batch 050	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates; some data rejected	E0940 - E0996		
50	Water-particulate	Battelle-NE	Batch 051	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E0738 - E0790		
50	Water-particulate	Battelle-NE	Batch 052	E3I		TSS	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E1053 - E1105		

*Indicates data added since last report

SAMPLE PROGRAM/ SAMPLE LOCATION	NUMBER OF SAMPLES ANALYZED	SAMPLE TYPE	SAMPLE COLLECTION BY	CASE NUMBER	ANALYSIS LAB	TYPE ANALYSIS PERFORMED		STATUS OF ANALYSES	WHEN ANALYSIS COMPLETE	WHERE IS DATA	DATA VALIDATION STATUS	COMMENTS	SAMPLE NUMBERS
						PCB	OTHERS						
BATTELLE SAMPLING/ MONITORING PROGRAM- NEW BEDFORD HARBOR- GROUP 5 DATA	16	Sediment	Battelle-NE	Batch 070	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E2018-E2033
	71	Sediment	Battelle-NE	Batch 079	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E2034-E2109, E2111-E2120
	51	Water-particulate	Battelle-NE	Batch 026	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Excludes E0324, includes blanks	E0474 - E0533
	62	Water-particulate	Battelle-NE	Batch 027	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Includes 7 blanks	E0535 - E0603
	50	Water-particulate	Battelle-NE	Batch 035	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete		E0638 - 726 (various)
	32	Water-particulate	Battelle-NE	Batch 036	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete		E0681 - 737
	17	Water-particulate	Battelle-NE	Batch 037	E3I		Metals	Complete (?)	---	NUS	NUS (1); deficiencies noted, reject & E3I re-analyze		E0621 - E0637
	70	Water-particulate	Battelle-NE	Batch 044	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete		E0791 - 0860
	18	Water-particulate	Battelle-NE	Batch 045	E3I		Metals	Complete (?)	---	NUS	NUS (1); deficiencies noted, reject & E3I re-analyze	Includes lab blank, lab spikes	E0861 - E0886
	40	Water-particulate	Battelle-NE	Batch 073	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E1856-E1895, E1899, E2000-E2005
	53	Water-filtrate	Battelle-NE	Batch 064	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted; includes blanks and duplicates	E1375-E1432
	53	Water-filtrate	Battelle-NE	Batch 065	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted, some as estimates	E1573-E1631
	48	Water-filtrate	Battelle-NE	Batch 067	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E1646-E1691, E1693-E1697
	50	Water-filtrate	Battelle-NE	Batch 068	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E1698-E1752
	54	Water-filtrate	Battelle-NE	Batch 069	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates; includes blanks, spikes, and duplicates	E1753-E1811
	39	Water-filtrate	Battelle-NE	Batch 072	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted, some as estimates	E1812-E1855
	54	Tissue-fish	Battelle-NE	Batch 046	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted; includes lab blanks, spikes	BJ70-98, BK01-20, BN01-06
	75	Tissue-fish	Battelle-NE	Batch 059, 060	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates; includes lab blanks, spikes	BK21-93, BN07-12
	40	Tissue-fish	Battelle-NE	Batch 061	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted; includes lab blanks, spikes	BL01-39, BK96-99, BN13-18
	70	Tissue-fish	Battelle-NE	Batch 062	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted; includes lab blanks, spikes	BL42-99, BM01-06, BN19-24
	27	Tissue-fish	Battelle-NE	Batch 063M	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates; includes blanks and duplicates	E1451-1476, E2006-2009
	33	Tissue-fish	Battelle-NE	Batch 066M	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates; includes blanks and duplicates	E1477-1510, E2014-2017
	22	Tissue-fish	Battelle-NE	Batch 067M	E3I		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates; includes blanks and duplicates	E1511-1532, E2010-2013
	46	Tissue-lipids	Battelle-NE	Batch 046	Battelle-NE			Lipid weight	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Includes replicates

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SAMPLE PROGRAM/ SAMPLE LOCATION	NUMBER OF SAMPLES ANALYZED	SAMPLE TYPE	SAMPLE COLLECTION BY	CASE NUMBER	ANALYSIS LAB	TYPE ANALYSIS PERFORMED		STATUS OF ANALYSES	WHEN ANALYSIS COMPLETE	WHERE IS DATA	DATA VALIDATION STATUS	COMMENTS	SAMPLE NUMBERS
						PCB	OTHERS						
BATELLE SAMPLING/ MONITORING PROGRAM NEW BEDFORD HARBOR- GROUP 5 DATA -continued	19	Sediment extracts	Battelle-NE	*SAS 2476A ETR 9507	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	4	Pore water	Battelle-NE	*SAS 2476A ETR 9508	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	51	Water	Battelle-NE	*SAS 2476A ETR 9509	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	21	Flounder muscle	Battelle-NE	*SAS 2476A ETR 9515	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	12	Lobster muscle	Battelle-NE	*SAS 2476A ETR 9516	Aquatec	PCB (congeners)		Complete	---	NUS/Battelle/ECJ	Awaiting NUS validation		
	12	Lobster pancreas	Battelle-NE	*SAS 2476A ETR 9517	Aquatec	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates, 04/14/86 revised results reported, 07/21/86	BC67 - BC99, BD02 - BD22
	54	Water-particulate	Battelle-NE	Batch 015	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates, 05/06/86 revised results reported, 07/21/86	BD23 - BD76
	54	Water-particulate	Battelle-NE	Batch 016	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates, 04/14/86 revised results reported, 07/21/86	BD78 - BD99, BE01 - BE33
	55	Water-filtrate	Battelle-NE	Batch 017	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates, 05/08/86 revised results reported, 07/21/86	BE34 - BE86
	53	Water-particulate	Battelle-NE	Batch 018	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates, 04/30/86 revised results reported, 07/21/86	BE88-99, BF01 - BF42
Seawater samples- filtrate and particulate- analyzed for PCB congeners	54	Water-filtrate	Battelle-NE	Batch 020	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates, 05/16/86 revised results reported, 07/21/86	BF48 - BF99, BG01, BG02
	54	Water-filtrate	Battelle-NE	Batch 024	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates, 05/19/86 revised results reported, 07/21/86	BG03-BG56
	54	Water-filtrate	Battelle-NE	Batch 025	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates w/exceptions, 12/02/86, some data unusable	BH40-BH72
	31	Water-filtrate	Battelle-NE	Batch 028	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates, 07/22/86	BG99, BH01-BH39
	40	Water-particulate	Battelle-NE	Batch 029	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted results, 11/24/86	BG57-98
	39	Water-filtrate	Battelle-NE	Batch 030	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted w/exceptions, 11/17/86	BI19-36
	17	Water-filtrate	Battelle-NE	Batch 032	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates w/exceptions, 12/05/86, some data unusable	BH73-96, BH98, 99, BI01-18
	42	Water-particulate	Battelle-NE	Batch 033	Battelle-NE	PCB (congeners)		Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted as estimates	E1996-E1998
	3	Pore water	Battelle-NE	Batch 082	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete		AV03A - AV58A
	The following media samples were analyzed for three metals (Cu, Cd, Pb): sediment pore water; sediment; water-particulate and filtrate; and tissue	60	Water	Battelle-NE	Case 002	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	
57		Sediment	Battelle-NE	Batch 007	Battelle-NE		Metals	Complete	---	NUS	Awaiting NUS validation		
41		Sediment	Battelle-NE	Batch 011	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete	Accepted; includes lab blanks, spikes	DI001-DI054
54		Sediment	Battelle-NE	Batch 041	Battelle-NE		Metals	Complete	---	Battelle/ECJ	NUS (1) complete/validation complete		